



Techni
ENGINEERING SOLUTIONS

MERCEDES NEW ATEGO EURO VI
967, 970 - 976

CODE / CODICE: 0500.7222

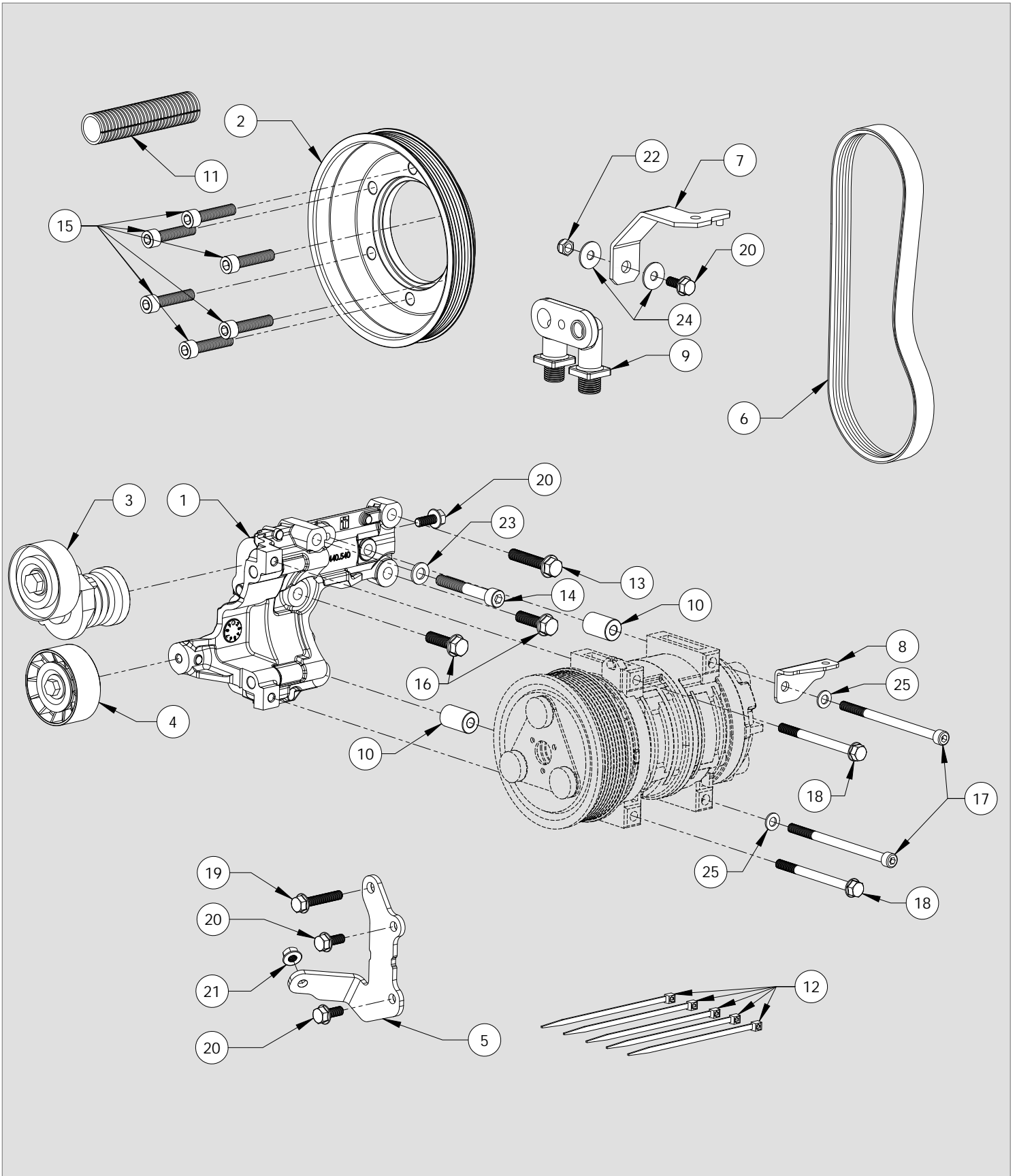
**COMPRESSOR / COMPRESSEUR / KOMPRES-
SOR / COMPRESSORE / COMPRESOR :
SELTEC TM21
QUE QP21**

**FITTING INSTRUCTIONS
EINBAUANLEITUNGEN
INSTRUCTIONS POUR LE MONTAGE
ISTRUZIONI DI MONTAGGIO
INSTRUCCIONES DE MONTAJE**

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PARTS VIEW / VUE ÉCLATÉE / TEILEANSICHT / VISTA PARTA / IMÁGENES DE LAS PIEZAS



PARTS LIST / NOMENCLATURE / TEILELISTE / ELENCO DELLE PARTI / LISTA DE PIEZAS

ITEM	CODE / CODICE / KODE / CODIGO	DESCRIPTION / DESCRIZIONE / BESCHREIBUNG / DESCRIPCION	QTY.	COMMENTS
1	0441.5401	Compressor Mount Bracket Assembly	1	
2	1701.5311	Crankshaft Pulley	1	
3	1705.5031	Automatic Tensioner	1	
4	1700.0331	Idle Pulley Assembly	1	
5	3020.5931	Atego Support Plate	1	
6	0820.6111	Belt - Poly Groove 6Pk 1215	1	
7	3020.5961	Under Panel Support Plate - Mb Atego Euro 6	1	
8	3020.5951	Oil Pipe Support Bracket - Tm21	1	
9	0425.0251	Manifold Inverted - 3/4 X 7/8 Insert O-Ring	1	
10	2803.5741	Spacer Od 20 X Id 8.5 L31	2	
11	1430.0092	Nylon Split Tube	1	
12	2763.0051	Cable Tie 4.8 X 370 - Black	5	
13	2705.0341	Hex Flange Bolt Durlok - M10 X 50 : 1.50 - 12.9	1	
14	2705.5111	Hexagonal Socket Head Cap Screw M10 X 70 : 1.5- 12.9	1	
15	2705.5271	Hex Socket Head Cap Screw M10 X 45 : 1.50 - 10.9	6	
16	2705.0241	Hex Flange Bolt Durlok - M10 X 35 : 1.50 - 12.9	2	
17	2704.5421	Hex Socket Head Cap Screw M8 X 130 : 1.25 - 12.9	2	
18	2704.5361	Hex Flange Bolt - M8 X 100 : 1.25 - 8.8	2	
19	2704.0161	Hex Flange Bolt Durlok - M8 X 45 : 1.25 - 12.9	1	
20	2704.0511	Hex Flange Bolt - M8 X 20 : 1.25 - 10.9	4	
21	2734.0021	Durlok Hexagon Flange Nut - M8 : 1.25	1	
22	2734.5041	Nut Nylock Din985 - M8 : 1.25	1	
23	2809.0011	Washer M10 Flat Din 125 - A 10.5	1	
24	2808.5021	Washer - 25Od 8.4Id 1.48L	2	
25	2808.0011	Washer M8 Flat Din 125 - A 8.4	2	

**COMPATIBLE COMPRESSORS / COMPRESSEURS RECOMMANDÉS / EMPFOHLENE KOMPRESSOREN
RACCOMANDATO COMPRESSORI / RECOMENDADAS COMPRESORES**

SELTEC	-	-	TM21-HD
Comp No	-	-	0381.0632
Valeo No.	-	-	488-47246
Mounting	-	-	Direct
Rotor	-	-	8PV
GL	-	-	51.16 mm
Armature	-	-	3E
Diameter	-	-	141
Voltage	-	-	24
Orientation	-	-	-
Fitting	-	-	Pad
Manifold	-	-	Bolt

QUE	-	-	QP21-HD
Comp No	-	-	0391.0632
Que No.	-	-	QP21-1563
Mounting	-	-	Direct
Rotor	-	-	8PV
GL	-	-	51.16 mm
Armature	-	-	3E
Diameter	-	-	141
Voltage	-	-	24
Orientation	-	-	-
Fitting	-	-	Pad
Manifold	-	-	Bolt

SANDEN	-	-	-
Comp No	-	-	-
Sanden No.	-	-	-
Mounting	-	-	-
Rotor	-	-	-
GL	-	-	-
Armature	-	-	-
Diameter	-	-	-
Voltage	-	-	-
Orientation	-	-	-
Fitting	-	-	-

NOTES

STANDARD FASTENER TORQUE VALUES

In the absence of specific torque values detailed in this fitting instruction manual, the following chart can be used as a guide to the maximum safe torque for specific size and grade of fastener.

COUPLES DE SERRAGE DES FIXATIONS STANDARDS

Si des chiffres de serrage au couple particuliers ne sont pas indiqués dans cette notice de montage, se référer au tableau suivant qui servira de guide pour le couple de sécurité maximum correspondant à une taille et un grade spécifiques de fixation.

ANZIEHMOMENTE FÜR STANDARDBEFESTIGUNGSMITTEL





Falls in dieser Einbauanleitung keine speziellen Anziehmomente angegeben sind, kann die folgende Tabelle als Richtlinie für das maximale sichere Anziehmoment für eine spezifische Größe oder Qualität von Befestigungsmitteln dienen.

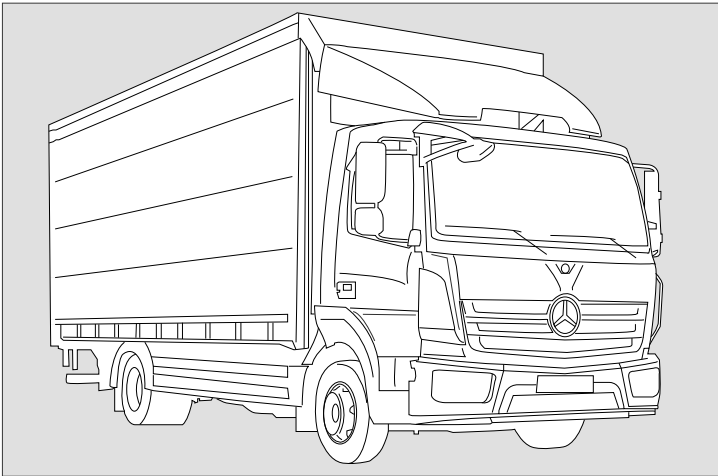
VALORI STANDARD DI SERRAGGIO PER DISPOSITIVI DI FISSAGGIO

In assenza di valori specifici di coppia nel presente manuale di istruzioni, si può utilizzare la seguente tabella come guida per conoscere la coppia massima sicura in base a dimensioni e grado del dispositivo di fissaggio.

VALORES ESTÁNDAR DE LOS PARES DE APRIETE Y FIJACIÓN

En ausencia de valores para los pares de apriete específicos detallados en este manual de instrucciones de montaje, se puede utilizar la siguiente tabla como guía para consultar el máximo par de torsión seguro para un tamaño concreto y su grado de fijación.

STRENGTH								
	Max Torque		Max Torque		Max Torque		Max Torque	
Dia / Pitch	lb.ft	Nm	lb.ft	Nm	lb.ft	Nm	lb.ft	Nm
M5 x 0.80	2	3	4.5	6	6.5	9	7.5	10
M6 x 1.00	4	5.5	7.5	10	11	15	13	18
M8 x 1.25	10	13	18	25	26	35	33	45
M10 x 1.25	20	27	39	53	57	78	66	90
M10 x 1.50	18	25	37	50	55	73	63	86
M12 x 1.75	33	45	63	85	97	130	111	150
M14 x 2.00	55	75	103	140	151	205	177	240
M16 x 2.00	85	115	159	215	232	315	273	370



VEHICLE DETAILS

Manufacturer	Mercedes
Make	New Atego Euro VI
Model	967, 970 - 976
Engine	7.7 L 6 Cyl / OM936 E6
Engine Details	175 / 200 / 220 Kw 238 / 272 / 299 PS
Year	01.14>
Chassis Nos.	N/A
LHD	YES
RHD	YES
PAS	YES
A/C	YES / NO
Voltage	24v

KIT DETAILS

Kit Part Number	0500.7222
Description	Speed Reduction Kit
Compressor RPM	3075 @ Max engine power output
Fitting Time	90 Minutes
Suction Fitting	90°
Discharge Fitting	90°
Belt Type	6PK 1215
Belt Part Number	0820.6111
Note:	Compatible with or without option N7C Not compatible with N7E, N7H or N7V options

FOREWORD

The purpose of this manual is to facilitate the installation of a direct drive compressor. The information given is merely instructive, should any complications arise contact the Technical department. The manufacturer's warranty does not cover any problems caused by defective installation or alterations made unless authorised. The manufacturer shall not be responsible for any injury, damage or loss caused directly or indirectly as a result of using this manual or the information contained within it.

1 SAFETY MEASURES:

Before fitting the Compressor adapter drive kit, ensure the following for damage:

- a Inner and outer trim and body work
- b Engine idle pace
- c Check all the vehicle functions

Check list:

- a Ensure that the right kit has been selected
- b Before installing, check that all the correct pieces are present; also ensure that there are no missing or broken pieces
- c When fitting, make sure the vehicle is properly protected against damage.

Installation apparatus

- a Calibrated torque wrench
- b Hand service tools
- c Protective covers and shields

2 PRECAUTIONS

- a Detach the battery negative lead.
- b Torque all bolts where stated using a calibrated torque wrench.
- c Take extreme care with moving parts.
- d Remove the vehicle's ignition key and keep it with you.
- e Wear safeguards and make sure that liquid refrigerant never touches your skin

Caution: Measures must be followed accurately to steer clear of the possibility of damage to individuals

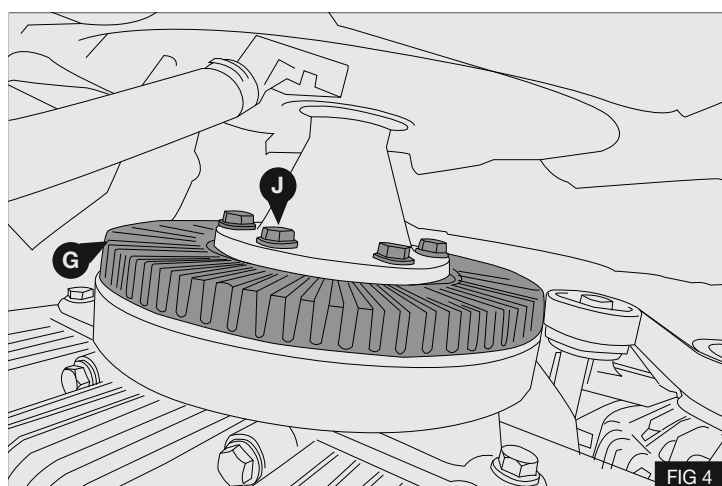
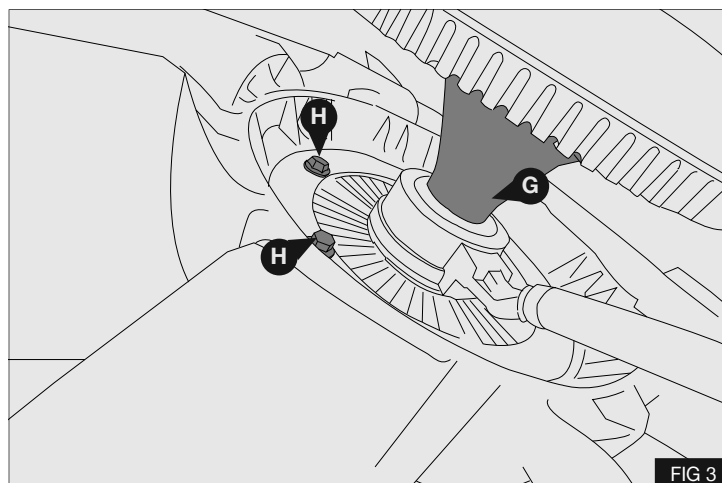
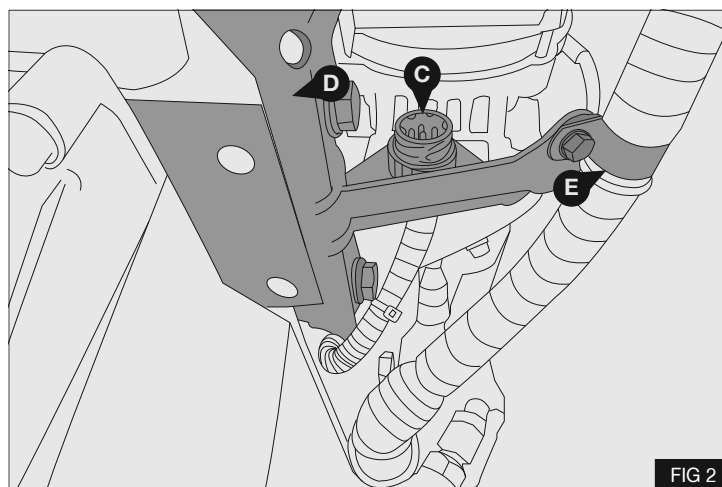
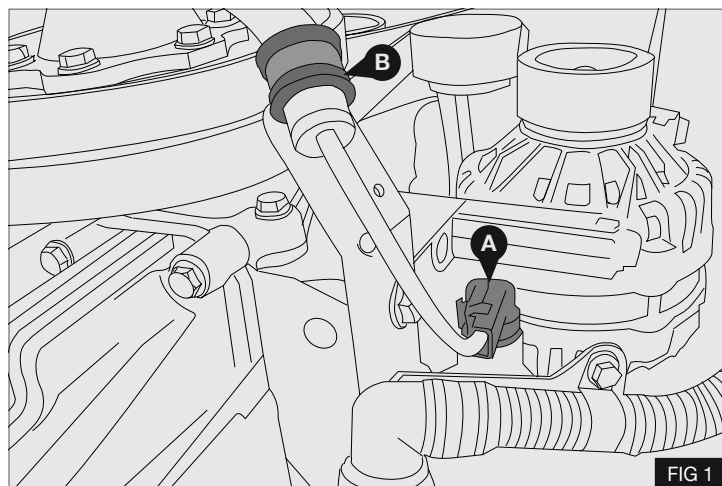
Warning: This calls awareness to actions which must be pursued to avoid damage to the components.

NB: This calls awareness to make the job easier or gives useful information.

N.B Prior to commencing work, please examine the instructions with care. The alphabetical symbols on the diagram relate to written instructions, numerical symbols relate to the parts listing.

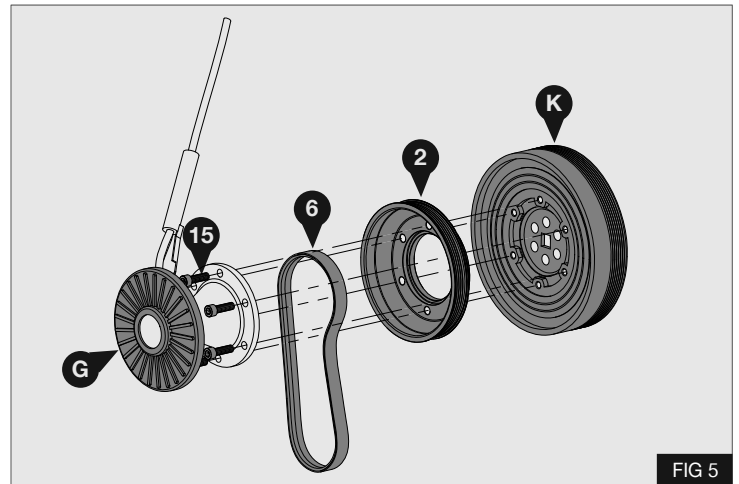
INSTALLATION

1. Disconnect the Battery
2. Remove the engine under tray
3. Disconnect the fan plug (A), Remove and retain p-clip (B) – Fig 1
4. Remove wiring plug (C) from bracket (D)
5. Remove and discard p-clip (E)
6. Remove and discard bracket (D) and 2x securing bolts – Fig 2
7. Remove and retain the 6x securing bolts (H) securing the fan to the fan hub (G) – Fig 3
8. Remove and discard the 6x securing bolts (J) securing the fan hub (G) to the crankshaft pulley. Carefully place the fan hub in the radiator cowl – Fig 4



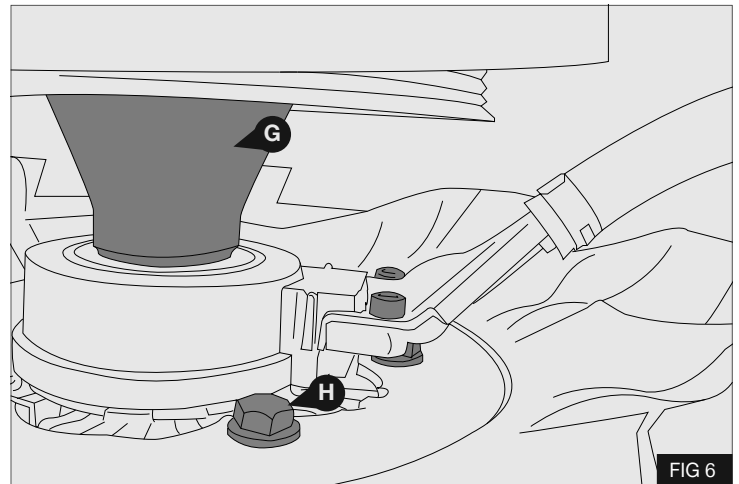
9. Secure the fan hub (G) and the supplied pulley (2) to the original crank pulley (K) using the supplied bolts (15) as shown opposite. Place the supplied belt (6) over the crank pulley (2).

Torque bolts (15) to 50Nm / 36.8lb ft - Fig 5



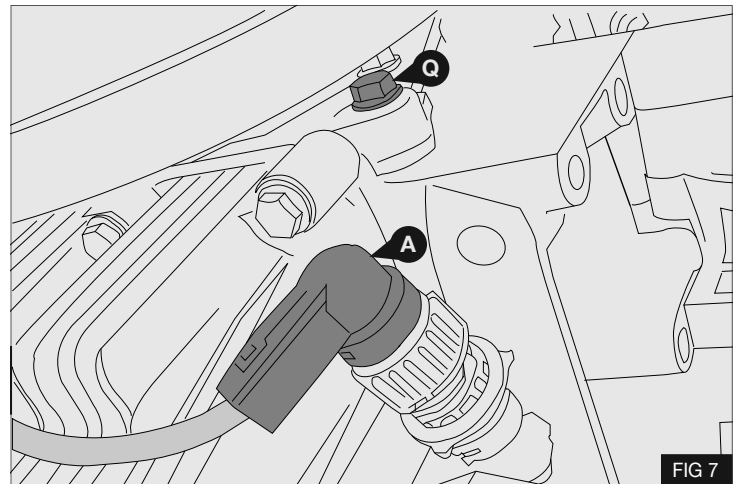
10. Refit the 6x securing bolts (H) securing the fan to the fan hub (G) - Fig 6

Torque bolts (H) to 25Nm / 18.4lb ft



11. Re-connect the fan plug (A) - Fig 7

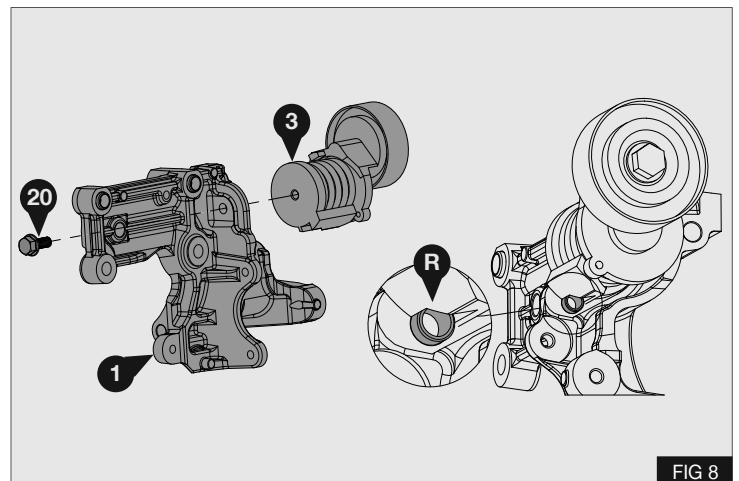
12. Remove and discard M8 bolt (Q) from the timing case - Fig 7



MOUNT BRACKET INSTALLATION

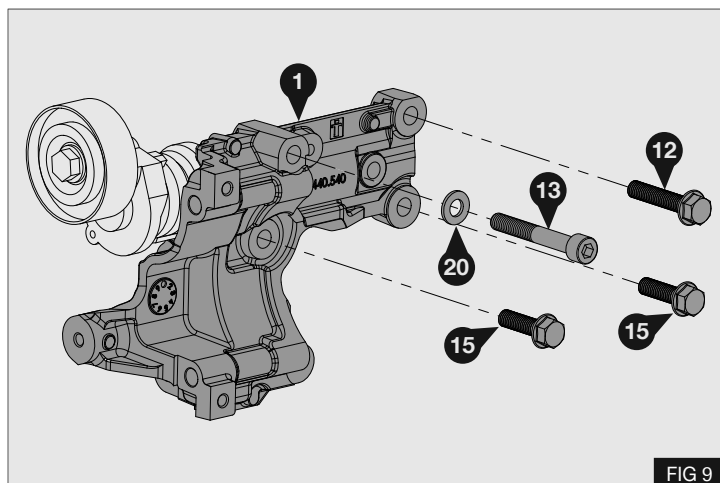
1. Position the automatic tensioner (3) onto the mount bracket (1) as shown opposite and secure with M8x20 bolt (20). Note position of locating dowel (R) - Fig 8

Torque bolt (20) to 29Nm / 21.4lb ft - Fig 8

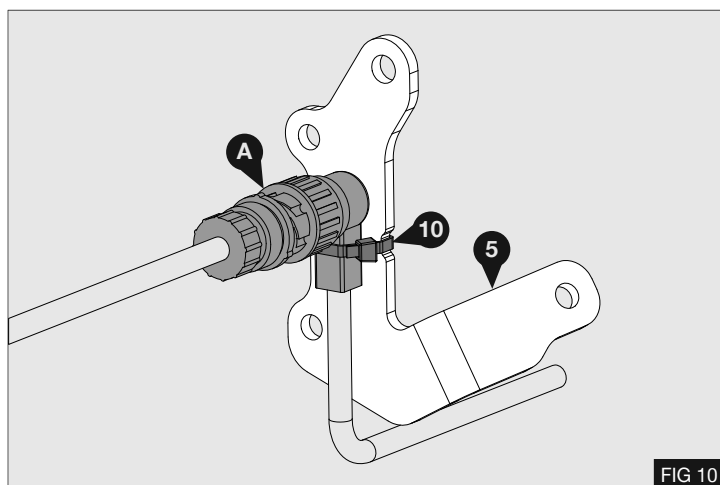


- Fit the mount bracket (1) to the position below the alternator. Locate the bracket to the dowel holes on the block. Secure using bolts (13), (16) and bolt (14) with washer (23) - Fig 9

Torque bolts (13), (14) and (16) to 58Nm / 42.8lb ft - Fig 9

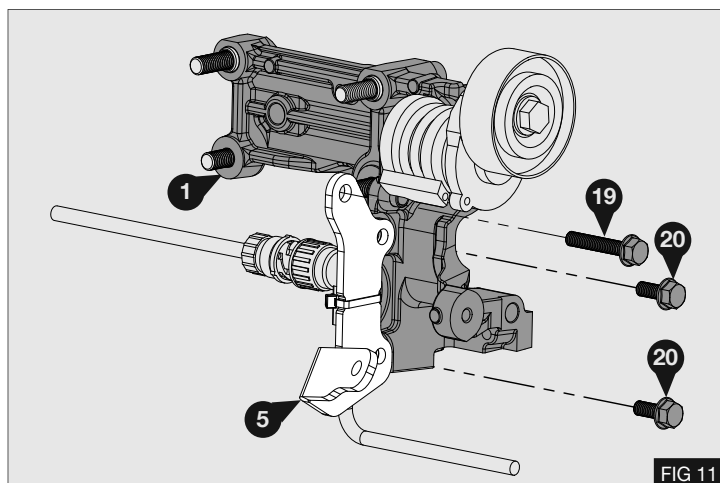


- Secure the fan loom plug (A) to the rear of support plate (6) using cable tie (12) as shown opposite - Fig 10

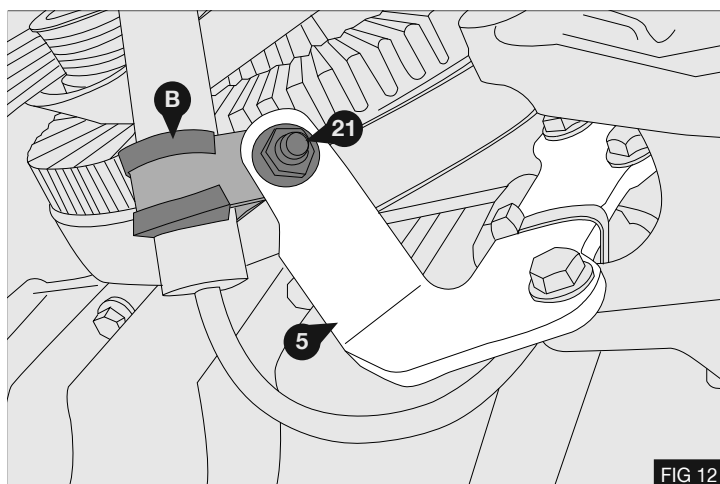


- Secure the support plate (5) to the mount bracket (1) using 2x bolts (20). Insert bolt (19) through the support plate (5) into the timing case - Fig 11

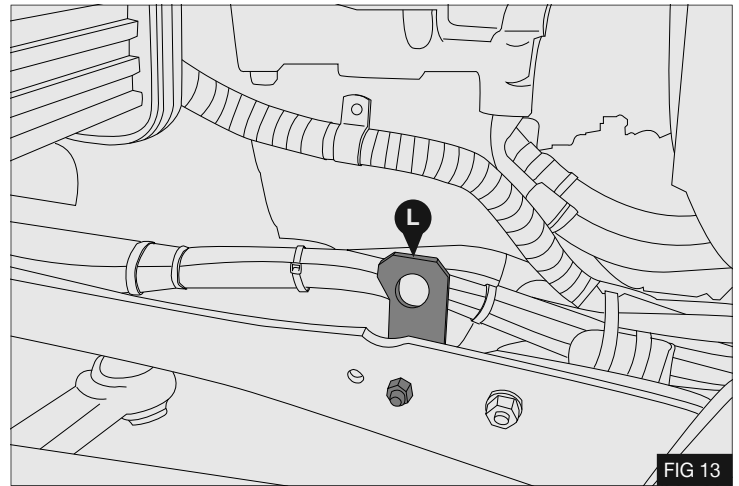
Torque bolts (19) and (20) to 29Nm / 21.4lb ft. - Fig 11



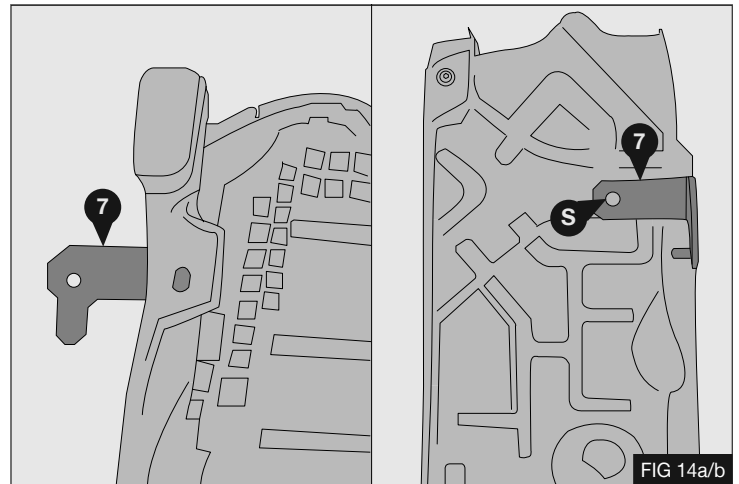
- Refit the original P-clip (B) of the fan loom to support plate (5) using the original fastener into supplied nut (21) - Fig 12



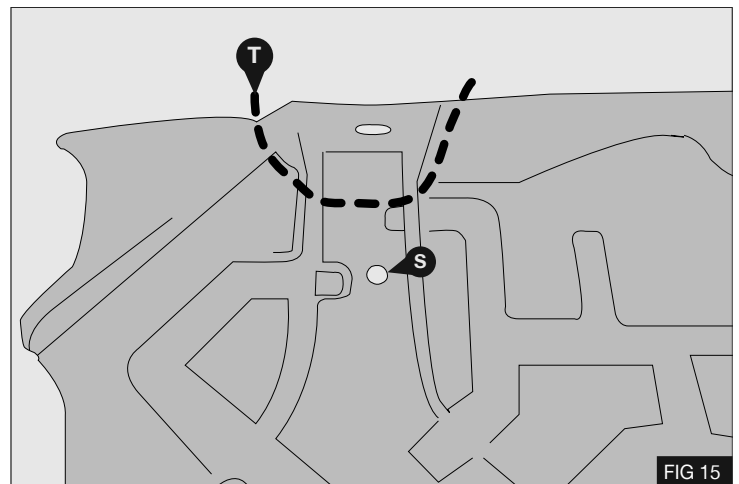
6. Remove and discard the front left under panel support plate (L) from the chassis. Retain the nut and bolt - Fig 13



7. Position the supplied under panel support plate (7) onto the front left position on the under panel as shown opposite. Mark the position of hole (S) and drill the under panel to a diameter of 10mm - Fig 14 a/b

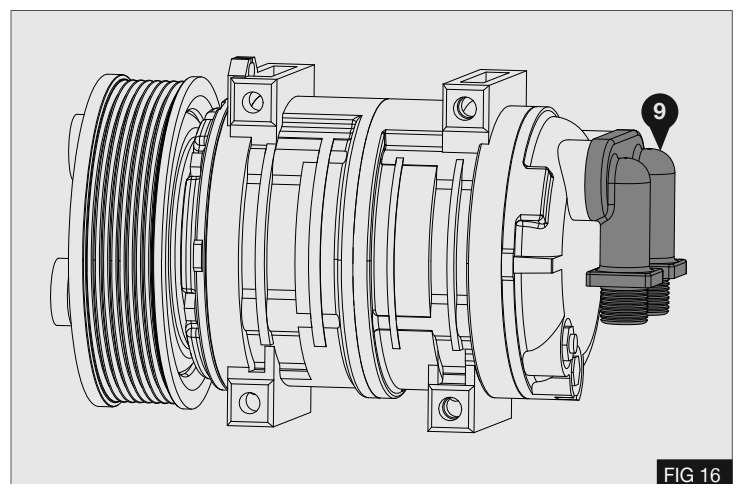


8. Remove the section of under panel (T) as shown opposite - Fig 15



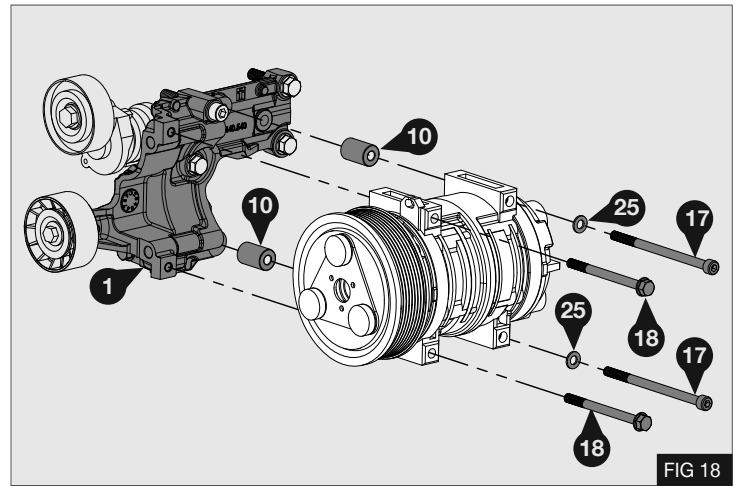
COMPRESSOR INSTALLATION

1. Install the supplied manifold (9) to the compressor in the inverted orientation as shown opposite - Fig 19



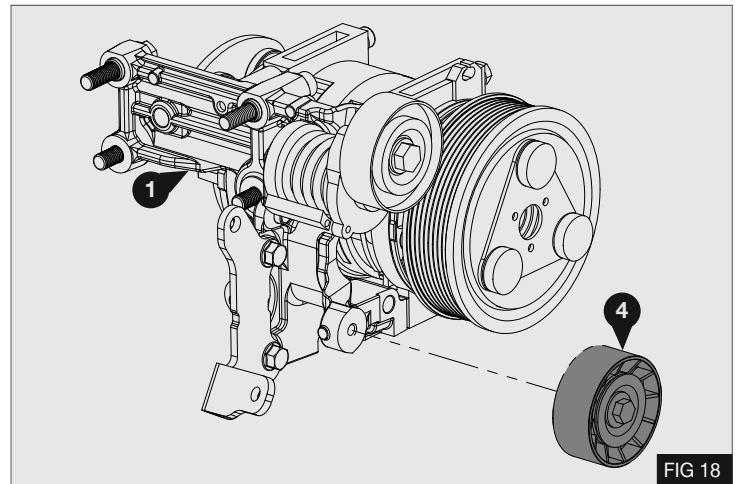
2. Install the compressor to the mount bracket (1) as shown opposite using bolts (18) at the front of the compressor. Secure the rear of the compressor using bolts (17) with washers (25) and spacers (10) - Fig 17

Torque bolts (18) to 17Nm / 12.5lb ft.
 Torque bolts (17) to 29Nm / 21.4lb ft.



3. Install the idle pulley (4) to the mount bracket (1) - Fig 18

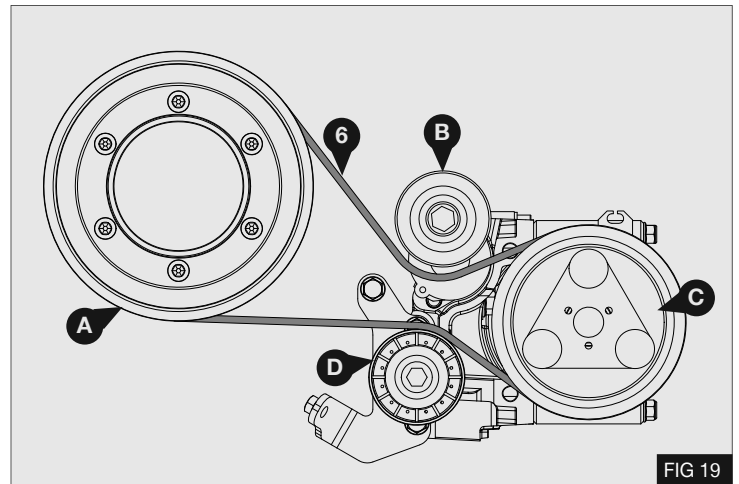
Torque the idle pulley retaining bolt to 25Nm / 18.4lb ft. - Fig 18



DRIVE BELT

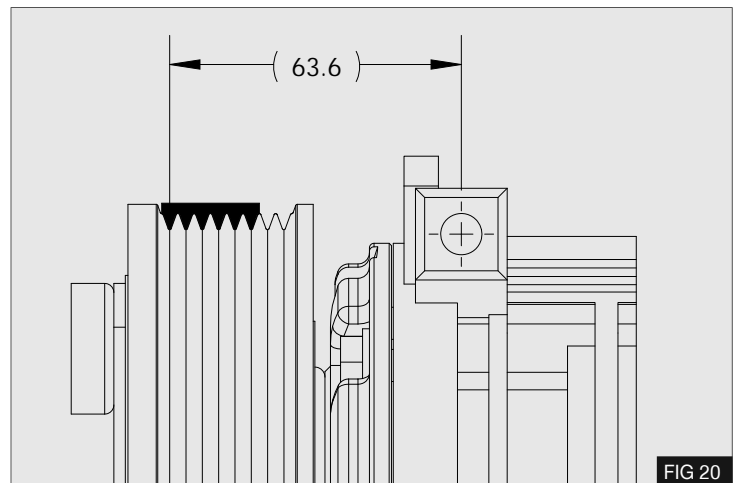
1. Install the supplied drive belt (6) as shown opposite - Fig 19

- A – Crankshaft Pulley
- B – Tensioner Pulley
- C – Compressor
- D – Idle Pulley

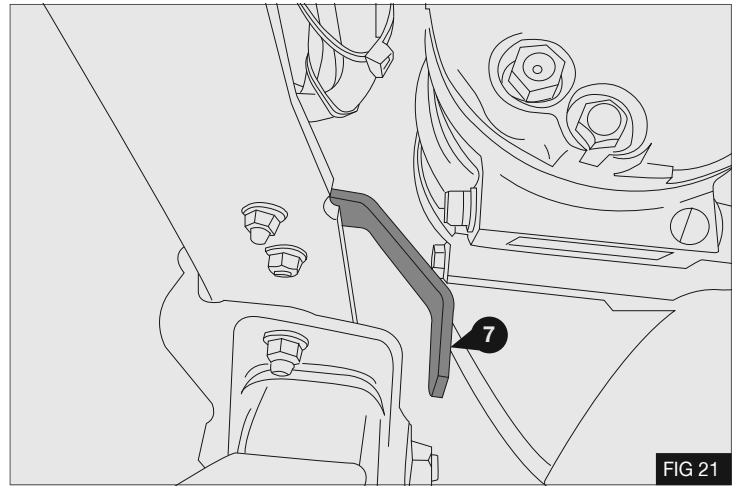


2. Place the belt in the correct groove of the compressor clutch as shown opposite (Seltec / Que PV8) - Fig 20
3. Remove locking pin from tensioner (3)

CAUTION: Once the belt has been installed check for adequate clearance to the fan loom. If required adjust the p – clip securing the fan loom to gain maximum clearance.

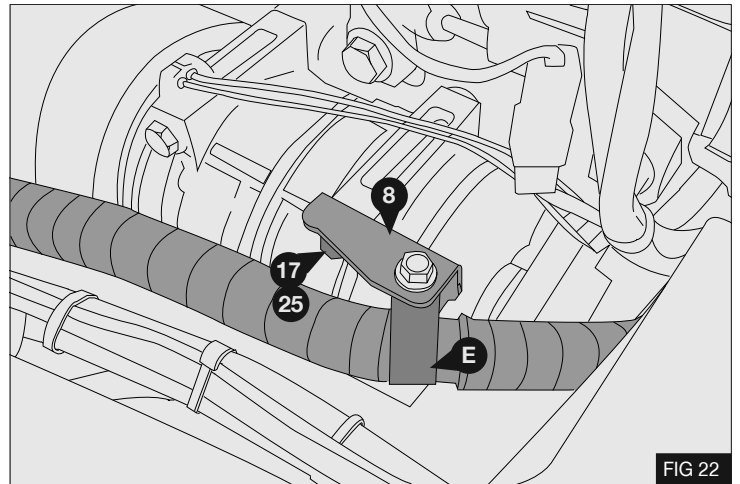


4. Install the supplied under panel support plate (7) to the chassis using the original fixings in the front left location - Fig 21



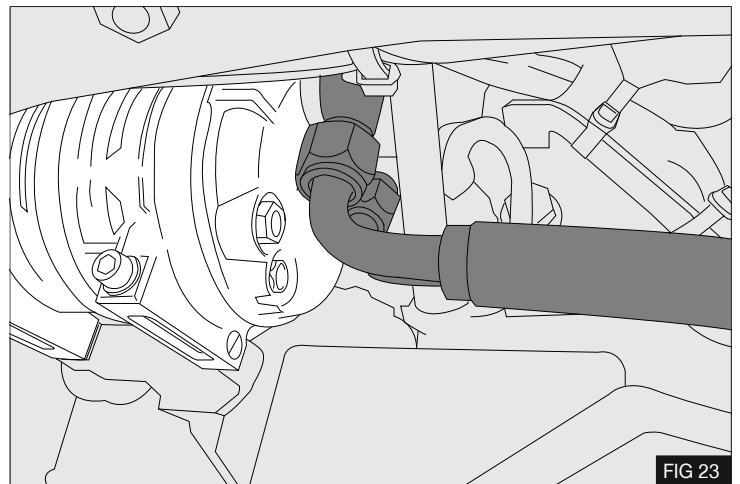
5. Remove the upper rear bolt (17) and washer (25) from the compressor. Fit the supplied pipe support bracket (8) to the compressor mount using bolt (17) and washer (25).

Torque bolt (17) to 29Nm / 21.4lb ft. - Fig 22



6. Secure the original p-clip (E) on the oil filler pipe to the pipe support bracket (8) as shown opposite using the original fasteners - Fig 22

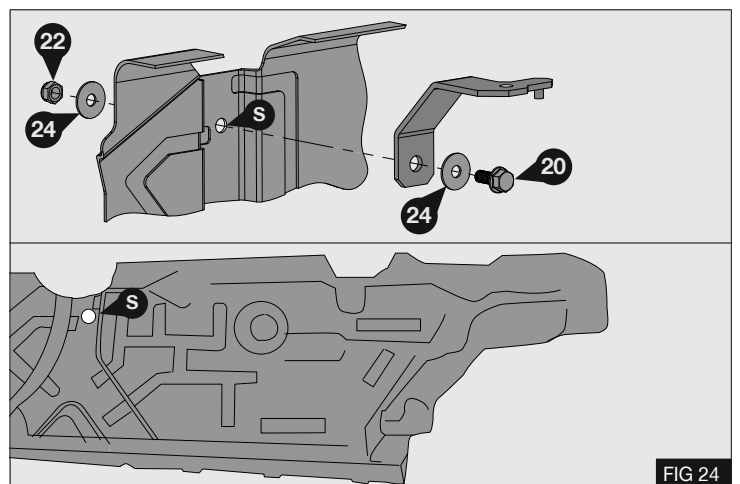
7. Install the pipe work to the compressor - Fig 23



8. Temporarily fit the under panel to the supplied support bracket (7) using bolt (20) with washers (24) and lock nut (22). Mark out and cut the under panel as required to clear the pipe work from the compressor. An example of the cut required is shown opposite - Fig 24

9. Run the engine with the compressor clutch engaged for five minutes. Check all components.

10. Install the supplied belt label in the engine bay.



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